



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010620
CERTIFICATION DATE: October 14, 2014
DATE RECERTIFICATION DUE: April 12, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

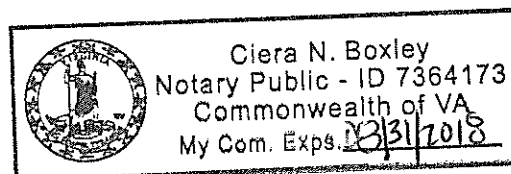
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 15th day of October, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



DBH
TLW

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
10/14/2013 To 10/14/2014**

Instrument Serial Number:	010620	As of 14-Oct-14
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
14-Oct-14	14-Oct-14	DBH (21250)	CERTIFIED.
05-May-14	05-May-14	DBH (21250)	CERTIFIED.
13-Nov-13	13-Nov-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.

DBH
TLN

INTOX EC/IR II **Quality Assurance Worksheet**

Instrument Serial Number **010620** Worksheet Start Date **10/14/2014**
 Location **DFS-Central**
 Address **737 N 5th St Richmond VA 23219**
 DFS Technician **Donald Hall** License No. **21250**

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **759** Reference Barometer (mm HG) **758**
 Reference Barometer(RB)Serial # **009109** RB Calibration Due **7/28/2015**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.298
0.300	0.299	0.290	0.307	Sample 2	0.297
Precision		sample min	sample max	Sample 3	0.297
0.001		0.297	0.298		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

Dry gas standard Lot No. (with tank no.) **AG230501-31**

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
 Mouthpieces
 Certificates of Analysis
 Operator Worksheet
 Other:



Notes:

[Large empty rectangular area for notes]

Instrument Serial Number

010620

Certification Date

10/14/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.248
0.250	0.249	0.241	0.256	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0.001		0.247	0.248		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.150	0.145	0.154	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.079
0.080	0.080	0.077	0.083	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.079
0		0.079	0.079		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donal B Hall

Date

10/14/14

Issuing Analyst

[Signature]
Sub

Date

10/15/14

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010620 Test Number: 874
Test Date: 10/14/2014 Test Time: 12:39 EDT

Technician Initials: DBH

Dry Gas Target: 0.249

Lot Number: 07713250I4-01 Exp Date: 05/01/2015

Tank Pressure: 443 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:40
BLK	0.000	12:41
CHK	0.248	12:41
BLK	0.000	12:43
CHK	0.247	12:43
BLK	0.000	12:45
CHK	0.247	12:46
BLK	0.000	12:47

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010620 Test Number: 875
Test Date: 10/14/2014 Test Time: 12:49 EDT

Technician Initials: DBH

Dry Gas Target: 0.150

Lot Number: 07713150I3-02 Exp Date: 05/01/2015

Tank Pressure: 855 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:49
BLK	0.000	12:50
CHK	0.149	12:51
BLK	0.000	12:52
CHK	0.149	12:53
BLK	0.000	12:54
CHK	0.149	12:55
BLK	0.000	12:56

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010620 Test Number: 876
Test Date: 10/14/2014 Test Time: 12:58 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 34413080I2-02 Exp Date: 01/01/2016

Tank Pressure: 438 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:58
BLK	0.000	12:59
CHK	0.079	13:00
BLK	0.000	13:01
CHK	0.079	13:02
BLK	0.000	13:03
CHK	0.079	13:04
BLK	0.000	13:05

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010620 Test Number: 877
Test Date: 10/14/2014 Test Time: 13:10 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-03 Exp Date: 05/01/2015

Tank Pressure: 639 psi Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:11
BLK	0.000	13:12
CHK	0.019	13:12
BLK	0.000	13:14
CHK	0.019	13:14
BLK	0.000	13:15
CHK	0.019	13:16
BLK	0.000	13:17

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DBH
TLN

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010620 Test Number: 878

Test Date: 10/14/2014 Test Time: 13:20 EDT

Dry Gas Target: 0.299

Lot Number: A6421201-02 Exp Date: 07/31/2016

Tank Pressure: 247 psi Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:20
CHK	0.298	13:21
BLK	0.000	13:23
CHK	0.297	13:24
BLK	0.000	13:25
CHK	0.297	13:26

Test Status: *Success*

Calibration CRC: 0C2FEE1E

DB/H
TLW

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010620 Test Number: 879

Test Date: 10/14/2014 Test Time: 13:30 EDT

Dry Gas Target: 0.100

Lot Number: AG230501-31 Exp Date: 10/31/2014

Tank Pressure: 125 psi Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:30
CHK	0.100	13:31
BLK	0.000	13:33
CHK	0.100	13:33
BLK	0.000	13:35
CHK	0.100	13:36

Test Status: *Success*

Calibration CRC: 0C2FEE1E

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2016

10/14/2014

010620

10/14/2014

14:00 EDT

0.00

DBH
TLW



IntoxNet MIS Report

Report Generated 14 Oct 2014 at 14:24

Test Results

Instrument Serial Number 010620

Test # 000880

Subject Test

Test Location 1 Department of
Test Date 14 Oct 2014

Test Location 2 Forensic Science
Test Time 13:54
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab
Card Serial Number 121250
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number

Operator's First Name DONALD
Operator's Middle Initial B
License Number 21250
Effective Date 10/01/2014
Expiration Date 10/01/2016
Subject's First Name TEST
Subject's Date of Birth 00/00/0000
Subject's Sex Male
Driver's License Expiration 00/00/0000

Driver's License State
End Date 14 Oct 2014
End Time 14:02

Court Name DFS
Result Date 14 Oct 2014
Result 0.00

Data Type DIAG
Data Type BLK
Data Type CHK
Data Type BLK
Data Type SUBJ
Data Type BLK
Data Type SUBJ
Data Type BLK

Sample Value Pass
Sample Value 0.000
Sample Value 0.100
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000

Sample Time 13:54
Sample Time 13:55
Sample Time 13:56
Sample Time 13:57
Sample Time 13:58
Sample Time 13:59
Sample Time 14:00
Sample Time 14:01

Standard Type Dry Gas Std
Standard Lot Number AG230501-31

Standard Value 0.100

Standard Expiration Date 10/31/2014

Tank Pressure 120

Barometric Pressure 757 mmHg

Blow Sample Number 1 Blow Duration 3.86 sec

Blow Volume 2095 cc End-of-Blow Time 13:58

Blow Sample Number 2 Blow Duration 4.93 sec

Blow Volume 2701 cc End-of-Blow Time 14:00

Tamper Evident Stamp 06b3ca17

Test Status Code 0

Test Status Success